

## PRODUCT DATA SHEET

# Sika Boom<sup>®</sup>-157 All Seasons

POLYURETHANE SELF-EXPANDING NOZZLE APPLIED FOAM FOR ALL SEASONS



### DESCRIPTION

Sika Boom<sup>®</sup>-157 All Seasons is a polyurethane, 1-part, self-expanding foam for all seasons (temperature range -10 °C to +40 °C). It is chlorinated paraffin and halogen free. The special formulation allows application on cold surfaces and at low environmental temperatures. A consistent foam structure is produced even at low humidity. The cured foam can be cut, trimmed, sanded and painted. Internal and external use.

### USES

- Insulating and filling cavities and voids
- Filling joints around window and door frames
- Insulating against noise, cold and draughts
- Filling around pipes / conduit penetrations

### CHARACTERISTICS / ADVANTAGES

- Temperature range -10 °C to +40 °C
- Easy application with nozzle
- High thermal insulation
- Effective sound dampening
- Good adhesion to many construction materials

### SUSTAINABILITY

- VOC emission classification GEV-EMICODE EC 1<sup>PLUS</sup>
- VOC emission classification of building materials RTS M1

### PRODUCT INFORMATION

<b>Composition</b>	Polyurethane foam	
<b>Packaging</b>	250 ml pressurised canister with rubber valve	20 canisters per box
	500 ml pressurised canister with rubber valve	12 canisters per box
	750 ml pressurised canister with rubber valve	12 canisters per box
	Refer to current price list for packaging variations.	
<b>Colour</b>	Light yellow	
<b>Shelf life</b>	12 months from the date of production.	
<b>Storage conditions</b>	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +25 °C. Store in an upright position. Protect the canister from direct sunlight and temperatures above +50 °C (danger of exploding). Always refer to packaging.	

Density ~24 kg/m<sup>3</sup> (FEICA TM 1019)

## TECHNICAL INFORMATION

Compressive Strength	dry	~4,4 N/cm <sup>2</sup>	(FEICA TM 1011)
Tensile Strength	dry	~11 N/cm <sup>2</sup>	(FEICA TM 1018)
	moistened	~9,0 N/cm <sup>2</sup>	(FEICA TM 1018)
Shear Strength		~5,7 N/cm <sup>2</sup>	(FEICA TM 1012)
Dimensional Stability		± ~5 %	(FEICA TM 1004)
Post Expansion		~130 %	(FEICA TM 1010)
Light and Thermal Resistance	Not permanently UV-stable		
Service Temperature	-40 °C min. / +80 °C max. (briefly up to +100 °C)		

## APPLICATION INFORMATION

Yield	750 ml canister:		
	Box Yield	~36 l	(FEICA TM 1003)
	Joint Yield*	~19 m	(FEICA TM 1002)
	500 ml canister:		
	Box Yield	~22 l	(FEICA TM 1003)
	Joint Yield*	~15 m	(FEICA TM 1002)
250 ml canister:			
	Box Yield	~10 l	(FEICA TM 1003)
	Joint Yield*	~7 m	(FEICA TM 1002)
*Based on 20 × 50 mm joint.			
Product Temperature	The minimum canister temperature for application must be above +5 °C. For optimal results, condition the canister to +20 °C.		
Ambient Air Temperature	Optimum	+20 °C	
	Permissible	-10 °C min. / +40 °C max.	
Substrate Temperature	Optimum	+20 °C	
	Permissible	-10 °C min. / +40 °C max.	
Curing Time	Fully cured after 24 hours		
Cutting Time	~70 min		(FEICA TM 1005)
Tack free time	~8 min		(FEICA TM 1014)

## APPLICATION INSTRUCTIONS

For the application of Sika Boom®-157 All Seasons all generally accepted rules of building and construction apply.

### SUBSTRATE PREPARATION

The substrate must be clean, sound, firm, free from oils, grease, dust and loose or friable particles. Paint, cement laitance and other poorly adhering contaminants must be removed. Sika Boom®-157 All Seasons adheres without primers and/or activators.

## MIXING

Shake the Sika Boom®-157 All Seasons canister well for a minimum 20 times before use. Repeat shaking after long interruptions of use.

### APPLICATION METHOD / TOOLS

After shaking the canister, remove the cap from the Sika Boom®-157 All Seasons canister and screw the nozzle firmly onto the thread of the valve without pressing the trigger or the valve. The amount of expanding foam extruded can be regulated by applying

more or less pressure on the trigger.  
Fill deep joints in several layers. Allow each layer to expand and harden sufficiently before pre-dampening with water again for next layer application.  
Only partially fill voids / cavities as the foam expands during curing.  
Small gaps can be filled using an extension tube, this will however reduce the foam flow rate.  
When used for bonding vertical / horizontal building components, they must be temporarily supported until the foam has fully cured.

#### **CLEANING OF EQUIPMENT**

Clean all tools and application equipment with Sika Boom® Cleaner or Sika® Remover-208 immediately after use. Hardened material can only be mechanically removed.  
For cleaning skin use Sika® Cleaning Wipes-100.

#### **IMPORTANT CONSIDERATIONS**

- Moisture is necessary to cure the foam.
- Insufficient moisture may lead to subsequent unintended foam expansion (post-expansion).
- Do not use for mechanical or structural fixing purposes.
- Sika Boom®-157 All Seasons does not bond onto polyethylene (PE), polypropylene (PP), polytetrafluoroethylene (PTFE / Teflon), and silicone, oil, grease or release agents.
- Not resistant to UV-light.

#### **BASIS OF PRODUCT DATA**

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

#### **LOCAL RESTRICTIONS**

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

## **ECOLOGY, HEALTH AND SAFETY**

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

## **LEGAL NOTES**

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.